## AMENDMENT TO THE CLAIMS:

Please amend claims as follows:

- 1-123 (Cancelled).
- 124. (Currently amended) A process for preparing an orthopaedic implant prosthesis bearing having improved mechanical properties and increased wear resistance comprising the steps of:
- a) providing an ultrahigh molecular weight polyethylene (UHMWPE) preform from which the bearings are to be fabricated;
  - b) heating the preform to a temperature of about 230°C to about 300°C; and
  - c) subsequently irradiating the preform from step b).
- 125. (Previously presented) The process of claim 124, wherein the heating step is performed at temperatures of about 230°C.
- 126. (Previously presented) The process of claim 124, wherein the preform is irradiated with gamma radiation at a dose greater than 1 Mrad.
- 127. (Currently amended) A process for preparing an orthopaedic implant prosthesis bearing having improved mechanical properties and increased wear resistance comprising the steps of:
- a) providing an ultrahigh molecular weight polyethylene (UHMWPE) preform from which the bearings are to be fabricated;
  - b) irradiating the preform; and
- c) heating the preform <u>from step b)</u> to a temperature of about 230°C to about 300°C.
- 128. (Currently amended) The process of claim 127, wherein the heating step is performed at temperatures of about 230°C.
- 129. (Previously presented) The process of claim 127, wherein the preform is irradiated with gamma radiation at a dose of at least 1 Mrad.